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1. CBD152-001: Adjustable Focus Lenses for Respiratory Protection

Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

Current respiratory protection systems require optical inserts for wearers requiring optical correction. Use of optical correction inserts limit optical compatibility with night vision goggles and weapon systems due to the added eye relief. One reason individual high index lenses are not used is because they cost seven times more than vision correction inserts. Additionally, polycarbonate lenses h ...

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2. CBD152-002: Smart Split Neck Seals for Respiratory Protection

Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

Current respiratory protection neck seal systems do not incorporate smart sensing technologies. Current neck seal systems are simply basic circular rubber cut-outs and are required to be constructed of one continuous piece of material. Many wearers find traditional neck seals to be uncomfortable. Respiratory protection systems utilized for fixed wing aircraft pilots (e.g. JSAM-FW, AR-5, and AERP), ...

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3. CBD152-003: Development of Mycotoxin Medical Countermeasures

Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

Mycotoxins are toxins produced by several species of fungi. Exposure to these toxins can result in incapacitation or even death of the exposed subject. From a biological warfare perspective, mycotoxins are relatively easy to produce in large quantities and many of them have nearly effortless accessibility. For these reasons, mycotoxins present a real threat to the warfighter. Trichothecene (T-2), ...

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4. CBD152-004: Exploiting Microbiome and Synthetic Biology to Discover and Produce Naturally Occurring Antibiotics

Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

The explosion in the “omics” field has allowed for unprecedented genetic identification of some of the billions of bacteria that comprise the world of the microbiome. A potential wealth of information is available through the study of species that have developed sophisticated defense mechanisms to protect themselves from the onslaught of foreign invaders. Recent examples include the microbiome ...

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5. CBD152-005: High Sensitivity, Low Complexity, Multiplexed Diagnostic Devices

Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

The U.S. Department of Defense requires infectious disease in vitro diagnostic (IVD) capabilities that are operationally suitable for use in far forward military environments and operationally effective versus a wide range of threats. Current single use disposable Lateral Flow Immunoassay-based diagnostic tests have many desirable operational suitability characteristics (low cost, minimal training ...

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6. CBD152-006: Signal Processing for Layered Sensing

Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

Asymmetric threats including chemical and biological agents, improvised dissemination devices, and vehicle- and personnel-born improvised explosive devices represent a persistent hindrance to U.S. military operations. Various sensor and surveillance systems develop a capacity to warn of the presence of such threats on a point-by-point basis; however the consumption of these data in the constructio ...

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7. BM: Biomedical Technologies

Release Date: 02-26-2015Open Date: 05-18-2015Due Date: 06-18-2015Close Date: 06-18-2015

The Biomedical Technologies subtopics aim to support the early stage development of novel products, processes, or services that will enable the delivery of high-quality, economically-efficient healthcare in the U.S. as well as globally. The BM subtopics are are not aimed at supporting or conducting clinical trials, clinical efficacy or safety studies, the development pre-clinical or clinical-stage ...

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8. BT: Biological Technologies

Release Date: 02-26-2015Open Date: 05-18-2015Due Date: 06-18-2015Close Date: 06-18-2015

BT1. Agricultural and Food Safety Biotechnology New approaches for meeting the world's future nutritional needs. For Agricultural Biotechnology, target areas for improvement may include (but are not limited to) drought tolerance, improved nutritional value, enhanced disease resistance, and higher yield. Proposers should use biotechnology in their approach, and should give consideration to technolo ...

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9. CT: Chemical and Environmental Technologies

Release Date: 02-26-2015Open Date: 05-18-2015Due Date: 06-18-2015Close Date: 06-18-2015

The Chemical and Environmental Technologies (CT) topic covers a wide range of technology areas of current and emerging commercial significance pertaining to the broad chemical industry and the environment. Phase I proposals would typically be at the proof of concept/technical feasibility stage on new or novel technology concepts and innovations when submitting to this overall topic area. A proposa ...

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10. EA: Educational Technologies and Applications

Release Date: 02-26-2015Open Date: 05-18-2015Due Date: 06-18-2015Close Date: 06-18-2015

Submitted proposals for education applications should provide storyboards, sketches, or descriptions of how the proposed application will work and provide examples of how users would interact with the application and how learning takes place. Projects that propose technologies or products similar to those in the marketplace or those similar to existing products and processes are unlikely to be fun ...

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